

### **Abstract**

The present invention is directed to a method and device for generating a mist. Mist is created by a sudden drop in the pressure of a gas/liquid mixture. This results in the rapid expansion of the volume of the gas component and the consequent breaking of the liquid into  
5 tiny droplets. The method and device allow for the precise control of both the size of the liquid droplets and the density of the mist produced. The mists may be used in a wide variety of applications, including medical procedures in which the body temperature of a patient is rapidly changed and any industrial procedure where a mist is needed.